

chain nodes :

8 9 11

ring nodes :

1 2 3 4 5 6 12 13 14 15 16 17 18 19 20 21

chain bonds :

4-8 5-9 9-11 9-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 15-18 16-17 16-21 18-19  
19-20 20-21

exact/norm bonds :

4-8 5-6 5-9 9-11

exact bonds :

1-2 1-6 2-3 3-4 4-5 9-14

normalized bonds :

12-13 12-17 13-14 14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

isolated ring systems :

containing 1 :

G1:O,S

G2:O,S,N,X

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

<u>NEWS 1</u>		Web Page URLs for STN Seminar Schedule - N. America
<u>NEWS 2</u>		"Ask CAS" for self-help around the clock
<u>NEWS 3</u>	SEP 09	CA/CAPplus records now contain indexing from 1907 to the present
<u>NEWS 4</u>	DEC 08	INPADOC: Legal Status data reloaded
<u>NEWS 5</u>	SEP 29	DISSABS now available on STN
<u>NEWS 6</u>	OCT 10	PCTFULL: Two new display fields added
<u>NEWS 7</u>	OCT 21	BIOSIS file reloaded and enhanced
<u>NEWS 8</u>	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
<u>NEWS 9</u>	NOV 24	MSDS-CCOHS file reloaded
<u>NEWS 10</u>	DEC 08	CABA reloaded with left truncation
<u>NEWS 11</u>	DEC 08	IMS file names changed
<u>NEWS 12</u>	DEC 09	Experimental property data collected by CAS now available in REGISTRY
<u>NEWS 13</u>	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPplus
<u>NEWS 14</u>	DEC 17	DGENE: Two new display fields added
<u>NEWS 15</u>	DEC 18	BIOTECHNO no longer updated
<u>NEWS 16</u>	DEC 19	CROPU no longer updated; subscriber discount no longer available
<u>NEWS 17</u>	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
<u>NEWS 18</u>	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
<u>NEWS 19</u>	DEC 22	ABI-INFORM now available on STN
<u>NEWS 20</u>	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
<u>NEWS 21</u>	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPplus
<u>NEWS 22</u>	FEB 05	German (DE) application and patent publication number format changes
<u>NEWS 23</u>	MAR 03	MEDLINE and LMEDLINE reloaded
<u>NEWS 24</u>	MAR 03	MEDLINE file segment of TOXCENTER reloaded
<u>NEWS 25</u>	MAR 03	FRANCEPAT now available on STN
<u>NEWS 26</u>	MAR 29	Pharmaceutical Substances (PS) now available on STN
<u>NEWS 27</u>	MAR 29	WPIFV now available on STN
<u>NEWS 28</u>	MAR 29	No connect hour charges in WPIFV until May 1, 2004
<u>NEWS 29</u>	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
<u>NEWS EXPRESS</u>	MARCH 31	CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
<u>NEWS HOURS</u>		STN Operating Hours Plus Help Desk Availability
<u>NEWS INTER</u>		General Internet Information
<u>NEWS LOGIN</u>		Welcome Banner and News Items
<u>NEWS PHONE</u>		Direct Dial and Telecommunication Network Access to STN
<u>NEWS WWW</u>		CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 APR 2004 HIGHEST RN 672263-62-6

DICTIONARY FILE UPDATES: 6 APR 2004 HIGHEST RN 672263-62-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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L1 STRUCTURE UPLOADED

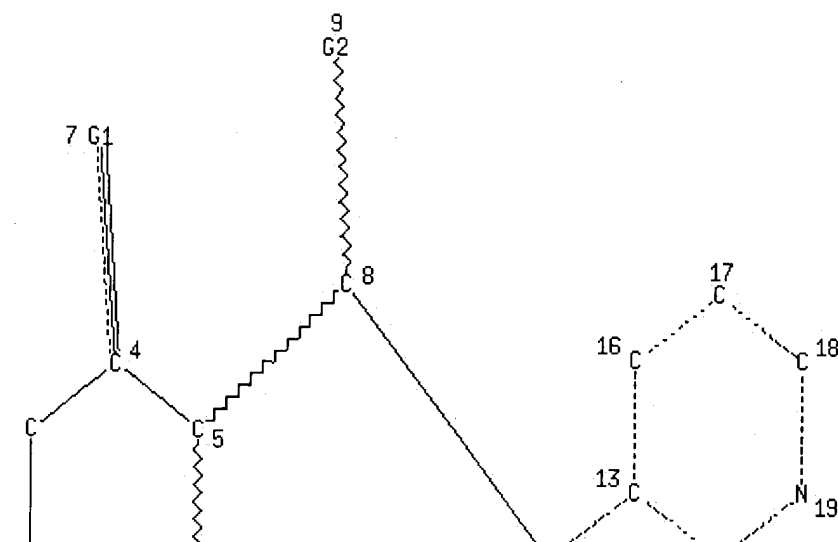
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L1 HAS NO ANSWERS

L1 STR

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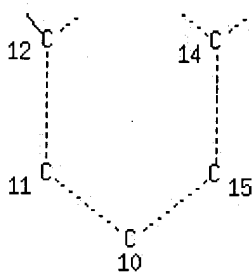
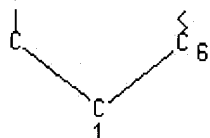
0 20 S 21



Page 1-B

2

Page 2-A



Page 2-B

VAR G1=20/21

VAR G2=22/23/24/25

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NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
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NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
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NSPEC	IS R	AT	11
NSPEC	IS R	AT	12
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NSPEC	IS R	AT	19

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 8 20 21 22 23 24 25

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 5

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

=> s l1

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SAMPLE SCREEN SEARCH COMPLETED - 75 TO ITERATE

100.0% PROCESSED 75 ITERATIONS 5 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 981 TO 2019  
PROJECTED ANSWERS: 5 TO 234

L2 5 SEA SSS SAM L1

=> s l1 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 20:23:58 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1482 TO ITERATE

100.0% PROCESSED 1482 ITERATIONS 106 ANSWERS  
SEARCH TIME: 00.00.01

L3 106 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	156.68	156.89

FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004  
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FILE COVERS 1907 - 7 Apr 2004 VOL 140 ISS 15  
FILE LAST UPDATED: 6 Apr 2004 (20040406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004)

FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004

L1 STRUCTURE UPLOADED  
L2 5 S L1  
L3 106 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004

=> s l3

L4 2 L3

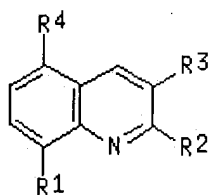
=> d l4, ibib abs fhitr, 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER:	2000:175796 HCAPLUS
DOCUMENT NUMBER:	132:207770
TITLE:	Preparation of oxocyclohexenoylquinolines as herbicides.
INVENTOR(S):	<u>Witschel</u> , Matthias; <u>Misslitz</u> , Ulf; <u>Baumann</u> , Ernst; Von <u>Devn</u> , Wolfgang; <u>Langemann</u> , Klaus; <u>Mayer</u> , Guido; Neidlein, Ulf; Gotz, Roland; Gotz, Norbert; Rack, Michael; Engel, Stefan; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S):	Basf Aktiengesellschaft, Germany
SOURCE:	PCT Int. Appl., 100 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000014069	A1	20000316	WO 1999-EP6322	19990827
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, <u>US</u> , VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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AU 9957425	A1	20000327	AU 1999-57425	19990827
EP 1112256	A1	20010704	EP 1999-944541	19990827
EP 1112256	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002524448	T2	20020806	JP 2000-568828	19990827
PRIORITY APPLN. INFO.:			DE 1998-19840799 A	19980908 =
			WO 1999-EP6322	W 19990827
OTHER SOURCE(S):	MARPAT 132:207770			
GI				



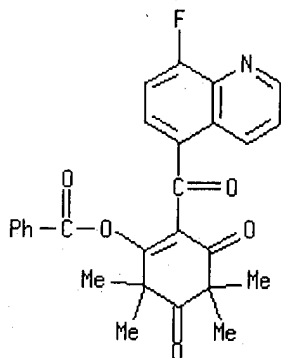
AB Title compds. [I; R1 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxyiminomethyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, (substituted) aminosulfonyl, sulfonylamino, PhO, heterocyclyloxy, PhS, heterocyclylthio; R2, R3 = H, alkyl, haloalkyl, halo; R4 = substituted (3-oxo-1-cyclohexen-2-yl)carbonyl, (1,3-dioxo-2-cyclohexyl)methylidene], were prep'd. Thus, 2-(8-chloroquinolin-5-yl)carbonyl-4,4,6,6-tetramethylcyclohexan-1,3,5-trione in CH2Cl2 was treated with (COCl)2 and DMF followed by 1.5 h stirring to give 2-[(8-chloroquinolin-5-yl)carbonyl]-1-chloro-4,4,6,6-tetramethylcyclohex-1-en-1,3,5-trione and 2-(8-chloroquinolin-5-yl)chloromethylidene-4,4,6,6-tetramethylcyclohexan-1,3,5-trione. Several I at 0.125-0.25 kg/ha postemergent showed very good activity against *Setaria faberi*, *Setaria viridis*, and *Solanum nigrum*.

IT **260795-09-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of oxocyclohexenoylquinolines as herbicides)

RN **260795-09-3 HCAPLUS**

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



*Can't use  
Put Double Check*

*15 it OPP  
Check to make sure not  
w/o for this  
appl.*

REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full  
Text

Citing  
References

ACCESSION NUMBER: 1998:197489 HCAPLUS

DOCUMENT NUMBER: 128:243961

TITLE: Preparation of heteroaroylcyclohexanediones as herbicides

INVENTOR(S): Otten, Martina; Gotz, Norbert; Von Deyn, Wolfgang; Engel, Stefan; Kardorff, Uwe; Plath, Peter; Hill, Regina Luise; Witschel, Matthias; Misslitz, Ulf; Westphalen, Karl-Otto; Walter, Helmut

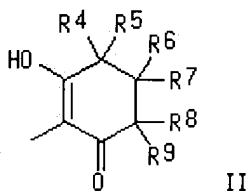
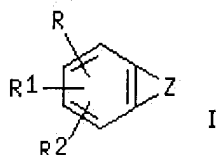
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany; et al.

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9812180	A1	19980326	WO 1997-EP4894	19970909
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19638486	A1	19980326	DE 1996-19638486	19960920
AU 9743833	A1	19980414	AU 1997-43833	19970909
AU 736395	B2	20010726		
EP 931070	A1	19990728	EP 1997-941998	19970909
EP 931070	B1	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, LT, LV				
BR 9711407	A	19990817	BR 1997-11407	19970909
CN 1230951	A	19991006	CN 1997-198078	19970909
NZ 334547	A	20000929	NZ 1997-334547	19970909
JP 2001501924	T2	20010213	JP 1998-514242	19970909
AT 234817	E	20030415	AT 1997-941998	19970909
ZA 9708452	A	19990319	ZA 1997-8452	19970919
US 6479436	B1	20021112	US 1999-254973	19990317
PRIORITY APPLN. INFO.:			DE 1996-19638486	A 19960920
			WO 1997-EP4894	W 19970909
OTHER SOURCE(S):			MARPAT 128:243961	
GI				



AB Title compds. [I; R = COR<sub>3</sub>; R<sub>1</sub>, R<sub>2</sub> = H, halo, alkyl, alkoxy, etc.; R<sub>3</sub> = dioxocyclohexyl group II; R<sub>4</sub>, R<sub>5</sub>, R<sub>7</sub>, R<sub>9</sub> = H or alkyl; R<sub>6</sub> = H, (un)substituted (cyclo)alkyl, heterocyclyl, etc.; R<sub>8</sub> = H, alkyl, alkoxy carbonyl; R<sub>6</sub>R<sub>9</sub> = bond or alkylene; R<sub>6</sub>R<sub>7</sub> = O; Z = substituted (N-oxido) CH:CHCH:N, -CH:CHN:CH, substituted CH:CHCH<sub>2</sub>NH, -CH:CHNHCH<sub>2</sub>, etc.] were prepd. as herbicides (no data). Thus, 1,3-cyclohexanedione was O-acylated by 8-bromo-5-quinolinecarboxylic acid (prepn. given) and the product rearranged to give 2-(8-bromo-5-quinolyl)carbonyl-1,3-cyclohexanedione.

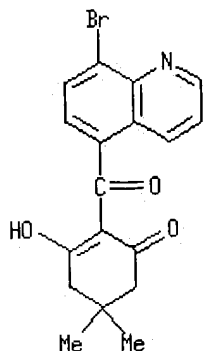
IT 205045-89-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heteroaroylcyclohexanediones as herbicides)

RN 205045-89-2 HCAPLUS

CN 2-Cyclohexen-1-one, 2-[(8-bromo-5-quinoliny)carbonyl]-3-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)





103 because  
OH is OK in ?  
app?  
see if  
protecting  
group.

REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
11.87	168.76

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=&gt; d his

(FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004)

FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004

L1 STRUCTURE UPLOADED  
L2 5 S L1  
L3 106 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004

L4 2 S L3

FILE 'CAOLD' ENTERED AT 20:24:36 ON 07 APR 2004

=&gt; s 13

L5 0 L3

=> file hcaplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	169.18

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE COVERS 1907 - 7 Apr 2004 VOL 140 ISS 15  
 FILE LAST UPDATED: 6 Apr 2004 (20040406/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; s l3/prep

2 L3

3131421 PREP/RL

L6

2 L3/PREP

(L3 (L) PREP/RL)

=&gt; d l6, ibib abs hitstr, 1-2

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER:

2000:175796 HCAPLUS

DOCUMENT NUMBER:

132:207770

TITLE:

Preparation of oxocyclohexenoylquinolines as herbicides.

INVENTOR(S):

Witschel, Matthias; Misslitz, Ulf; Baumann, Ernst; Von Deyn, Wolfgang; Langemann, Klaus; Mayer, Guido; Neidlein, Ulf; Gotz, Roland; Gotz, Norbert; Rack, Michael; Engel, Stefan; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut

PATENT ASSIGNEE(S):

BASF Aktiengesellschaft, Germany

SOURCE:

PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

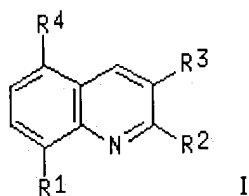
LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000014069	A1	20000316	WO 1999-EP6322	19990827
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2343144	AA	20000316	CA 1999-2343144	19990827
AU 9957425	A1	20000327	AU 1999-57425	19990827
EP 1112256	A1	20010704	EP 1999-944541	19990827
EP 1112256	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002524448	T2	20020806	JP 2000-568828	19990827
PRIORITY APPLN. INFO.:			DE 1998-19840799 A	19980908
			WO 1999-EP6322 W	19990827
OTHER SOURCE(S):		MARPAT 132:207770		
GI				



AB Title compds. [I; R1 = H, NO<sub>2</sub>, halo, cyano, alkyl, haloalkyl, alkoxyiminomethyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, (substituted) aminosulfonyl, sulfonylamino, PhO, heterocycloxy, PhS, heterocyclylthio; R2, R3 = H, alkyl, haloalkyl, halo; R4 = substituted (3-oxo-1-cyclohexen-2-yl)carbonyl, (1,3-dioxo-2-cyclohexyl)methylidene], were prep'd. Thus, 2-(8-chloroquinolin-5-yl)carbonyl-4,4,6,6-tetramethylcyclohexan-1,3,5-trione in CH<sub>2</sub>Cl<sub>2</sub> was treated with (COCl)<sub>2</sub> and DMF followed by 1.5 h stirring to give 2-[(8-chloroquinolin-5-yl)carbonyl]-1-chloro-4,4,6,6-tetramethylcyclohex-1-en-1,3,5-trione and 2-(8-chloroquinolin-5-yl)chloromethylidene-4,4,6,6-tetramethylcyclohexan-1,3,5-trione. Several I at 0.125-0.25 kg/ha postemergent showed very good activity against *Setaria faberi*, *Setaria viridis*, and *Solanum nigrum*.

IT 260795-09-3P 260795-11-7P 260795-13-9P  
260795-14-0P 260795-16-2P 260795-18-4P  
260795-20-8P 260795-22-0P 260795-24-2P  
260795-26-4P 260795-28-6P 260795-30-0P  
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260795-36-6P 260795-38-8P 260795-40-2P  
260795-42-4P 260795-44-6P 260795-45-7P  
260795-46-8P 260795-48-0P 260795-50-4P  
260795-52-6P 260795-53-7P 260795-55-9P  
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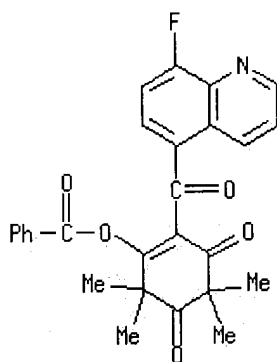
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260796-03-0P 260796-05-2P 260796-07-4P  
260796-09-6P 260796-11-0P 260796-13-2P  
260796-15-4P 260796-21-2P 260796-25-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)

(prepn. of oxocyclohexenoylquinolines as herbicides)

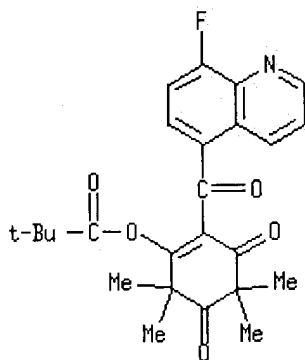
RN 260795-09-3 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



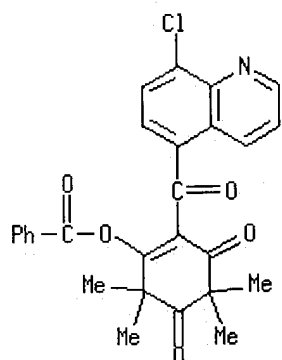
RN 260795-11-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



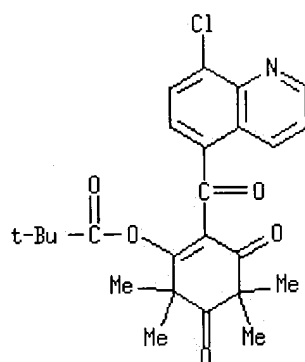
RN 260795-13-9 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



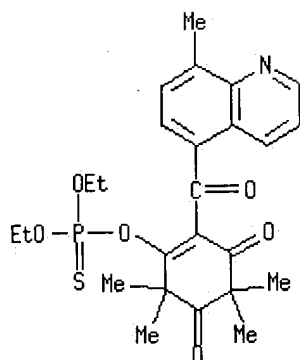
RN 260795-14-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



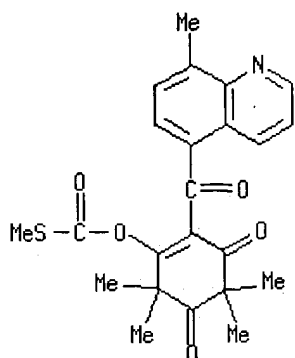
RN 260795-16-2 HCAPLUS

CN Phosphorothioic acid, O,O-diethyl O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



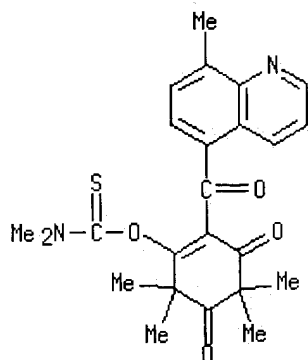
RN 260795-18-4 HCAPLUS

CN Carbonothioic acid, S-methyl O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



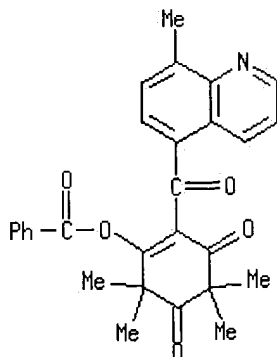
RN 260795-20-8 HCAPLUS

CN Carbamothioic acid, dimethyl-, O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



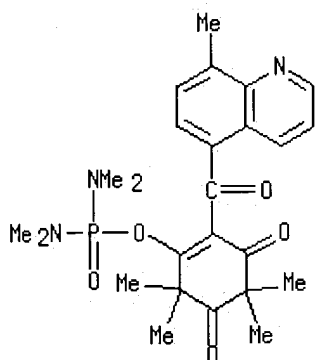
RN 260795-22-0 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



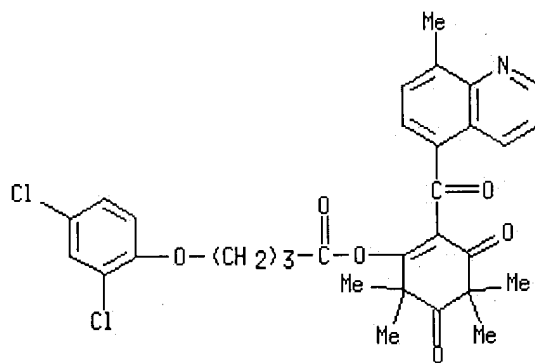
RN 260795-24-2 HCAPLUS

CN Phosphorodiamidic acid, tetramethyl-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



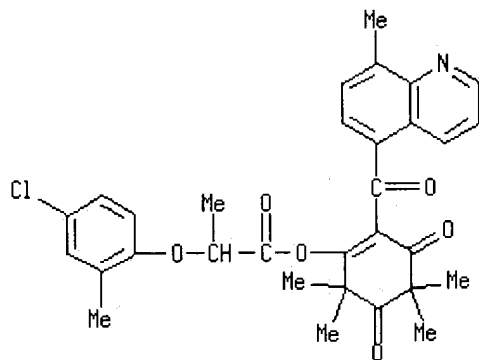
RN 260795-26-4 HCAPLUS

CN Butanoic acid, 4-(2,4-dichlorophenoxy)-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



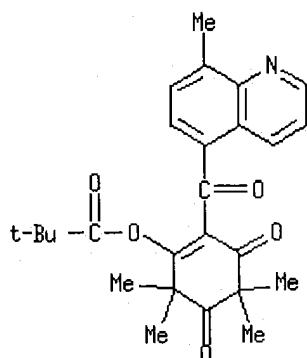
RN 260795-28-6 HCAPLUS

CN Propanoic acid, 2-(4-chloro-2-methylphenoxy)-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



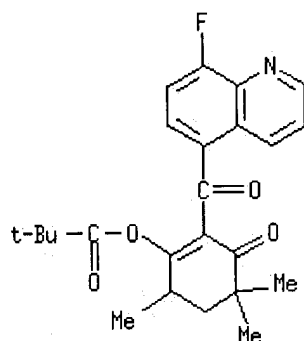
RN 260795-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



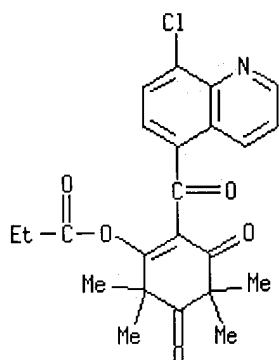
RN 260795-31-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6-trimethyl-3-oxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



RN 260795-32-2 HCAPLUS

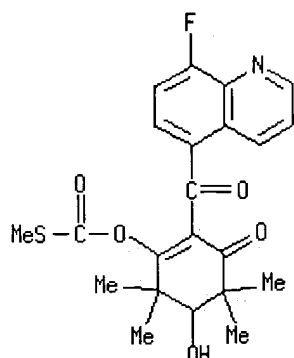
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(1-oxopropoxy)- (9CI) (CA INDEX NAME)



RN 260795-34-4 HCAPLUS

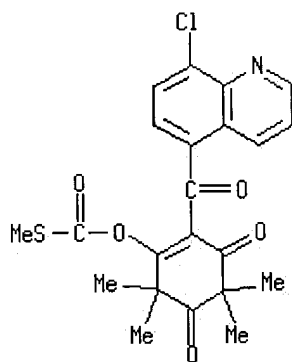
CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-5-hydroxy-4,4,6,6-tetramethyl-3-oxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)





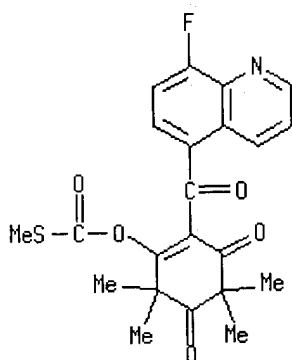
RN 260795-36-6 HCAPLUS

CN Carbonothioic acid, O-[2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)



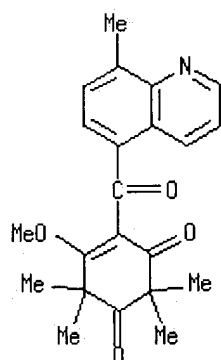
RN 260795-38-8 HCAPLUS

CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)



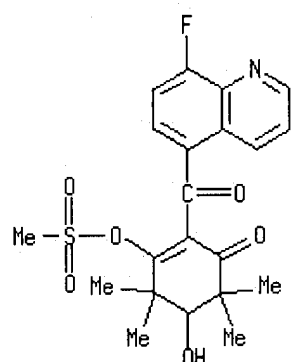
RN 260795-40-2 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-methoxy-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



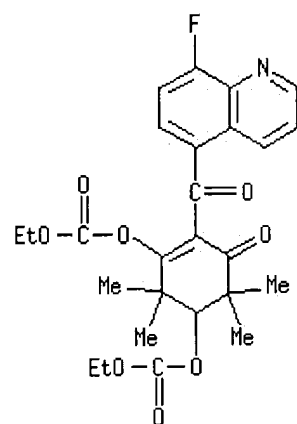
RN 260795-42-4 HCAPLUS

CN 2-Cyclohexen-1-one, 2-[(8-fluoro-5-quinolinyl)carbonyl]-5-hydroxy-4,4,6,6-tetramethyl-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



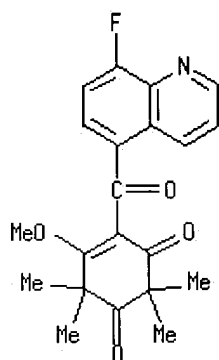
RN 260795-44-6 HCAPLUS

CN Carbonic acid, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-oxo-3-cyclohexene-1,3-diyl diethyl ester (9CI) (CA INDEX NAME)



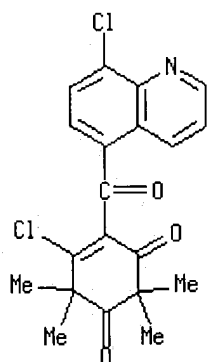
RN 260795-45-7 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-5-methoxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



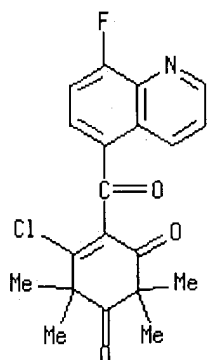
RN 260795-46-8 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



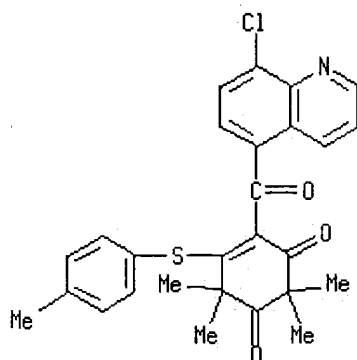
RN 260795-48-0 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



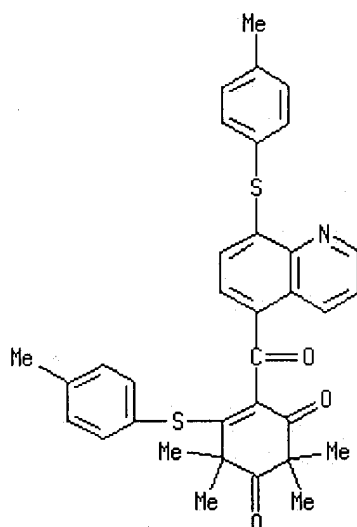
RN 260795-50-4 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-[(4-methylphenyl)thio]- (9CI) (CA INDEX NAME)



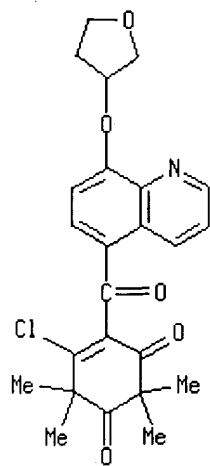
RN 260795-52-6 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-5-[(4-methylphenyl)thio]-4-[[8-[(4-methylphenyl)thio]-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



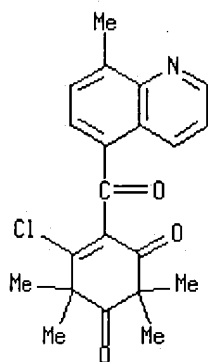
RN 260795-53-7 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-2,2,6,6-tetramethyl-4-[[8-[(tetrahydro-3-furanyl)oxy]-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



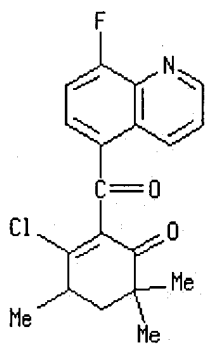
RN 260795-55-9 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



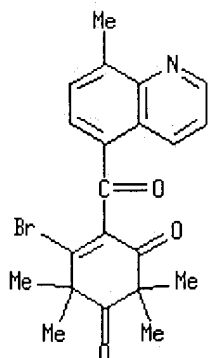
RN 260795-57-1 HCAPLUS

CN 2-Cyclohexen-1-one, 3-chloro-2-[(8-fluoro-5-quinolinyl)carbonyl]-4,6,6-trimethyl- (9CI) (CA INDEX NAME)



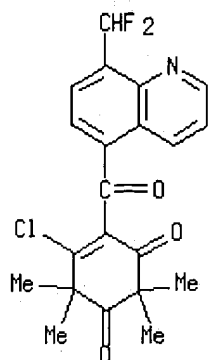
RN 260795-59-3 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-bromo-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



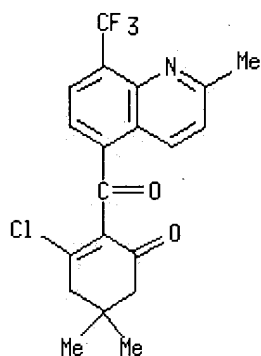
RN 260795-60-6 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



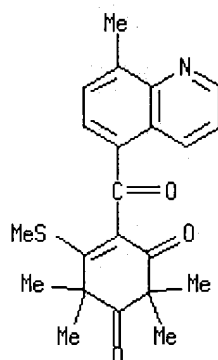
RN 260795-61-7 HCAPLUS

CN 2-Cyclohexen-1-one, 3-chloro-5,5-dimethyl-2-[[2-methyl-8-(trifluoromethyl)-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 260795-62-8 HCAPLUS

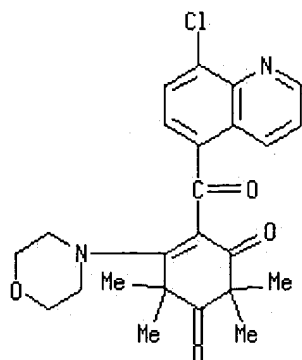
CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]-5-(methylthio)- (9CI) (CA INDEX NAME)



RN 260795-64-0 HCAPLUS

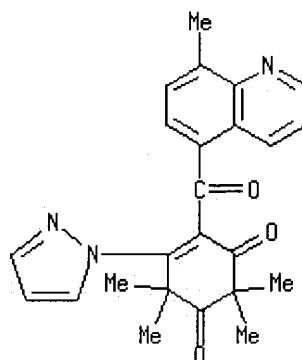
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)





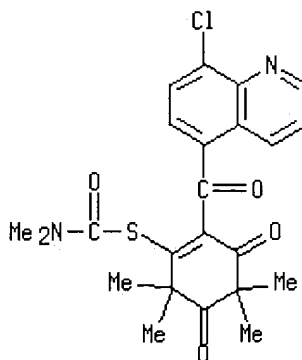
RN 260795-73-1 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]-5-(1H-pyrazol-1-yl)-(9CI) (CA INDEX NAME)



RN 260795-75-3 HCAPLUS

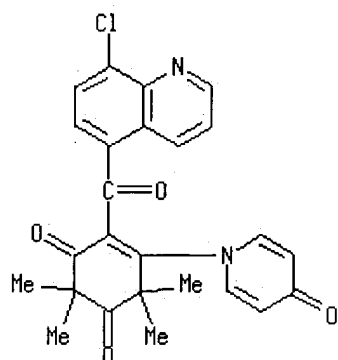
CN Carbamothioic acid, dimethyl-, S-[2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



RN 260795-76-4 HCAPLUS

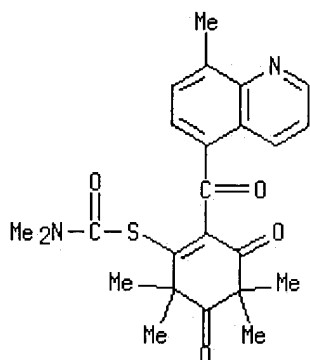
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(4-oxo-1(4H)-pyridinyl)-(9CI) (CA INDEX NAME)





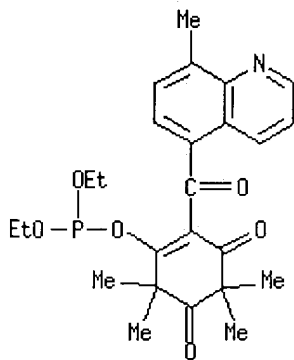
RN 260795-78-6 HCAPLUS

CN Carbamothioic acid, dimethyl-, S-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



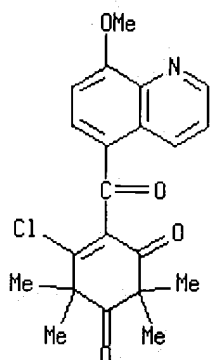
RN 260795-80-0 HCAPLUS

CN Phosphorous acid, diethyl 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



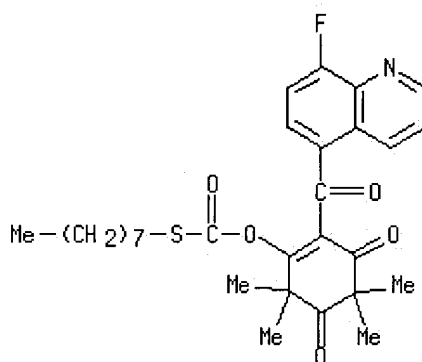
RN 260795-82-2 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-methoxy-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



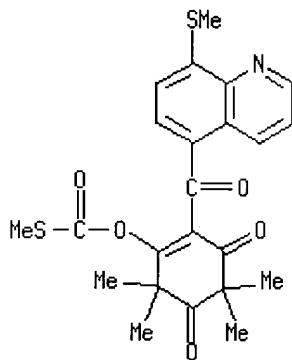
RN 260795-84-4 HCAPLUS

CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-octyl ester (9CI) (CA INDEX NAME)



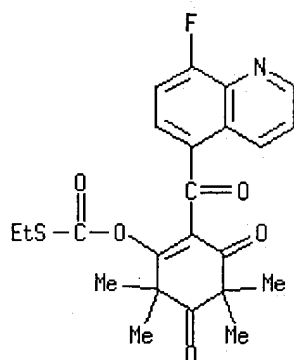
RN 260795-88-8 HCAPLUS

CN Carbonothioic acid, S-methyl O-[4,4,6,6-tetramethyl-2-[[8-(methylthio)-5-quinolinyl]carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



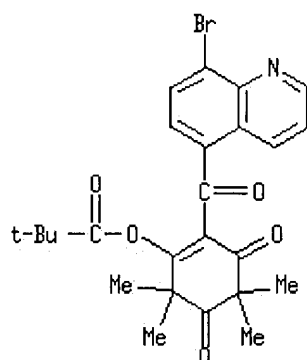
RN 260795-89-9 HCAPLUS

CN Carbonothioic acid, S-ethyl O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



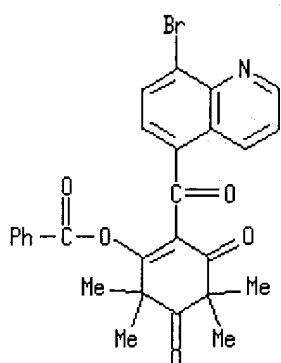
RN 260795-91-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[(8-bromo-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



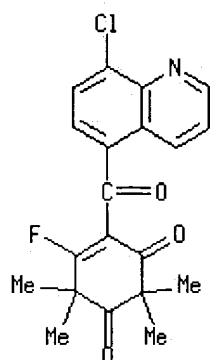
RN 260795-93-5 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-bromo-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



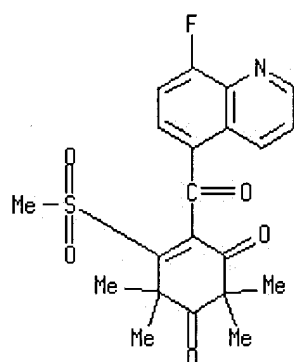
RN 260795-95-7 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



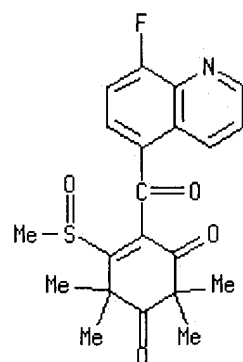
RN 260795-97-9 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylsulfonyl)- (9CI) (CA INDEX NAME)



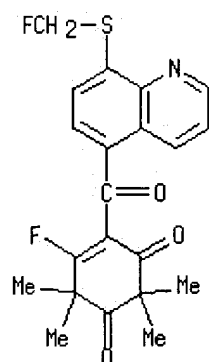
RN 260795-99-1 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylsulfonyl)- (9CI) (CA INDEX NAME)



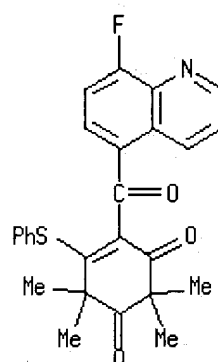
RN 260796-01-8 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-fluoro-4-[[8-[(fluoromethyl)thio]-5-quinolinyl]carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



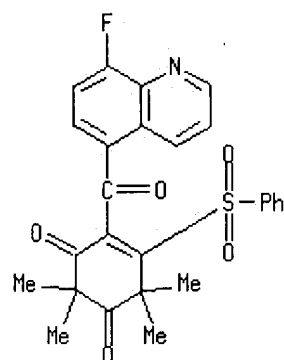
RN 260796-03-0 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(phenylthio)- (9CI) (CA INDEX NAME)



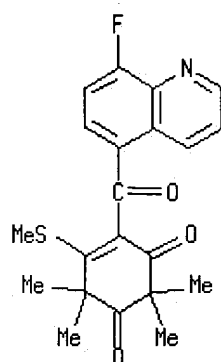
RN 260796-05-2 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



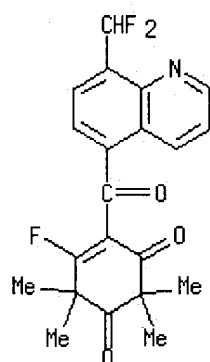
RN 260796-07-4 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylthio)- (9CI) (CA INDEX NAME)



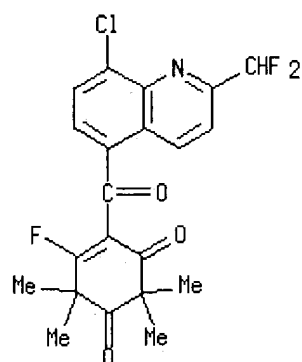
RN 260796-09-6 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



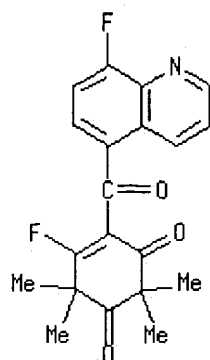
RN 260796-11-0 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[[8-chloro-2-(difluoromethyl)-5-quinolinyl]carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



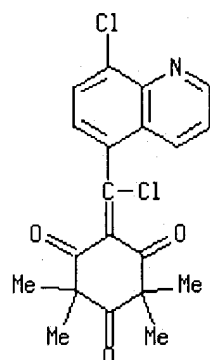
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CN 4-Cyclohexene-1,3-dione, 5-fluoro-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



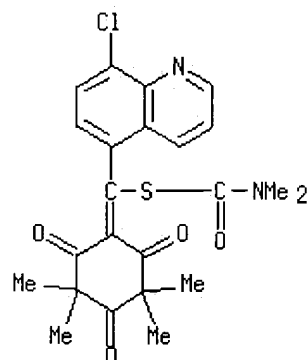
RN 260796-15-4 HCAPLUS

CN 1,3,5-Cyclohexanetrione, 6-[chloro(8-chloro-5-quinolinyl)methylene]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



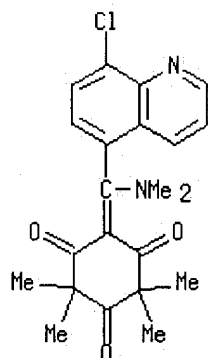
RN 260796-21-2 HCAPLUS

CN Carbamothioic acid, dimethyl-, S-[(8-chloro-5-quinolinyl)(3,3,5,5-tetramethyl-2,4,6-trioxocyclohexylidene)methyl] ester (9CI) (CA INDEX NAME)



RN 260796-25-6 HCAPLUS

CN 1,3,5-Cyclohexanetrione, 6-[(8-chloro-5-quinolinyl)(dimethylamino)methylene]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)

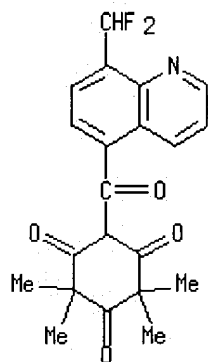


IT **260796-36-9P 260796-43-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**  
(**Preparation**); RACT (Reactant or reagent)  
(prepn. of oxocyclohexenoylquinolines as herbicides)

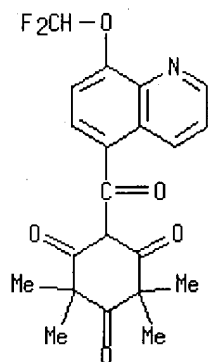
RN 260796-36-9 HCAPLUS

CN 1,3,5-Cyclohexanetrione, 6-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-  
2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



RN 260796-43-8 HCAPLUS

CN 1,3,5-Cyclohexanetrione, 6-[[8-(difluoromethoxy)-5-quinolinyl]carbonyl]-  
2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing  
Text References

ACCESSION NUMBER: 1998:197489 HCAPLUS

DOCUMENT NUMBER: 128:243961

TITLE: Preparation of heteroaroylcyclohexanediones as



herbicides

INVENTOR(S): Otten, Martina; Gotz, Norbert; Von Deyn, Wolfgang; Engel, Stefan; Kardorff, Uwe; Plath, Peter; Hill, Regina Luise; Witschel, Matthias; Misslitz, Ulf; Westphalen, Karl-Otto; Walter, Helmut

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany; et al.

SOURCE: PCT Int. Appl., 86 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

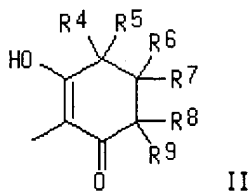
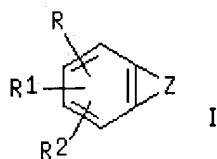
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9812180	A1	19980326	WO 1997-EP4894	19970909
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19638486	A1	19980326	DE 1996-19638486	19960920
AU 9743833	A1	19980414	AU 1997-43833	19970909
AU 736395	B2	20010726		
EP 931070	A1	19990728	EP 1997-941998	19970909
EP 931070	B1	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, LT, LV				
BR 9711407	A	19990817	BR 1997-11407	19970909
CN 1230951	A	19991006	CN 1997-198078	19970909
NZ 334547	A	20000929	NZ 1997-334547	19970909
JP 2001501924	T2	20010213	JP 1998-514242	19970909
AT 234817	E	20030415	AT 1997-941998	19970909
ZA 9708452	A	19990319	ZA 1997-8452	19970919
US 6479436	B1	20021112	US 1999-254973	19990317
<u>PRIORITY APPLN. INFO.:</u>			DE 1996-19638486 A	19960920
			WO 1997-EP4894 W	19970909

OTHER SOURCE(S): MARPAT 128:243961  
GI



AB Title compds. [I; R = COR<sub>3</sub>; R<sub>1</sub>, R<sub>2</sub> = H, halo, alkyl, alkoxy, etc.; R<sub>3</sub> = dioxocyclohexyl group II; R<sub>4</sub>, R<sub>5</sub>, R<sub>7</sub>, R<sub>9</sub> = H or alkyl; R<sub>6</sub> = H, (un)substituted (cyclo)alkyl, heterocyclyl, etc.; R<sub>8</sub> = H, alkyl, alkoxy-carbonyl; R<sub>6</sub>R<sub>9</sub> = bond or alkylene; R<sub>6</sub>R<sub>7</sub> = O; Z = substituted (N-oxido) CH:CHCH:N, -CH:CHN:CH, substituted CH:CHCH<sub>2</sub>NH, -CH:CHNHCH<sub>2</sub>, etc.] were prep'd. as herbicides (no data). Thus, 1,3-cyclohexanedione was O-acylated by 8-bromo-5-quinolinecarboxylic acid (prepn. given) and the product rearranged to give 2-(8-bromo-5-quinolyl)carbonyl-1,3-cyclohexanedione.

IT 205045-89-2P 205045-90-5P 205045-91-6P

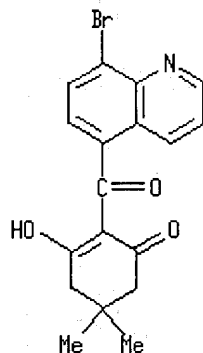
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 205045-98-3P 205045-99-4P 205046-00-0P  
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 205046-07-7P 205046-08-8P 205046-09-9P  
 205046-10-2P 205046-11-3P 205046-12-4P  
 205046-13-5P 205046-14-6P 205046-15-7P  
 205046-16-8P 205046-17-9P 205046-18-0P  
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 205046-43-1P 205046-44-2P 205046-45-3P  
 205046-46-4P 205046-47-5P 205046-48-6P  
 205046-49-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
 adverse); BSU (Biological study, unclassified); SPN (Synthetic  
 preparation); BIOL (Biological study); **PREP (Preparation)**; USES  
 (Uses)

(prepn. of heteroaroylcyclohexanediones as herbicides)

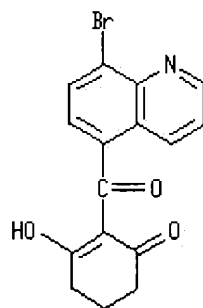
RN 205045-89-2 HCAPLUS

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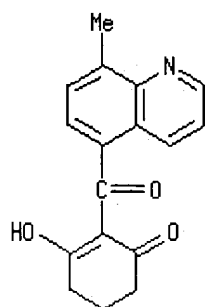
RN 205045-90-5 HCAPLUS

CN 2-Cyclohexen-1-one, 2-[(8-bromo-5-quinolinyl)carbonyl]-3-hydroxy- (9CI)  
 (CA INDEX NAME)



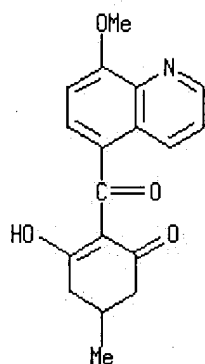
RN 205045-91-6 HCAPLUS

CN 2-Cyclohexen-1-one, 3-hydroxy-2-[(8-methyl-5-quinolinyl)carbonyl]- (9CI)  
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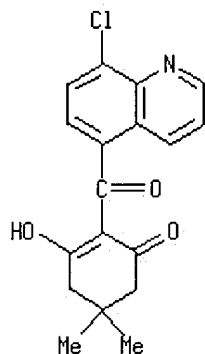
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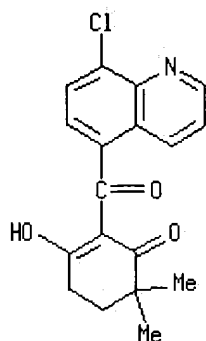
RN 205045-93-8 HCAPLUS

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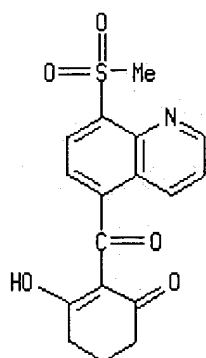
RN 205045-94-9 HCAPLUS

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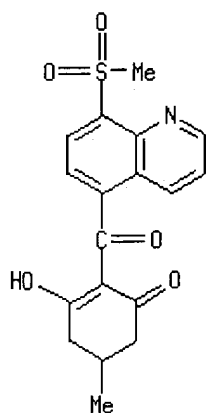
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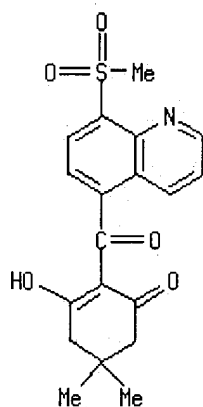
RN 205045-96-1 HCAPLUS

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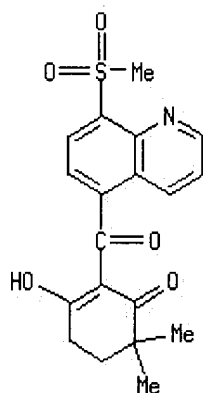
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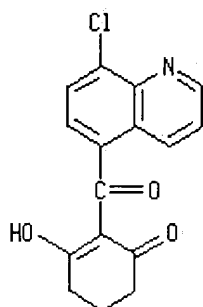
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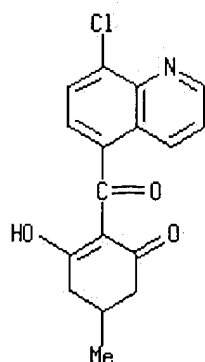
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(CA INDEX NAME)



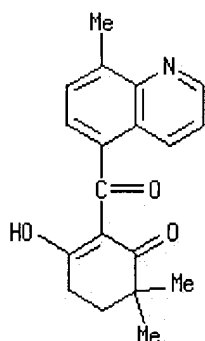
RN 205046-00-0 HCAPLUS

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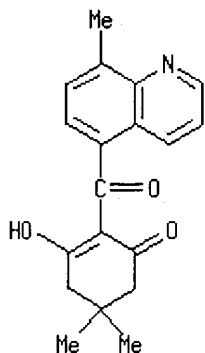
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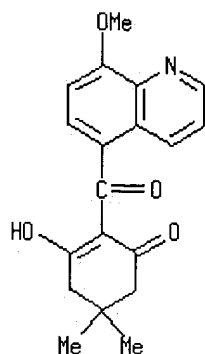
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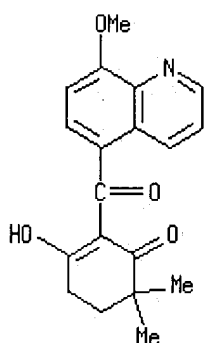
RN 205046-03-3 HCAPLUS

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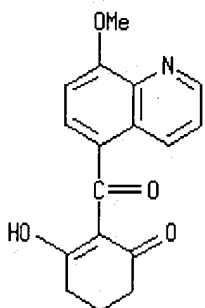
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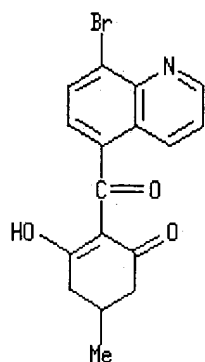
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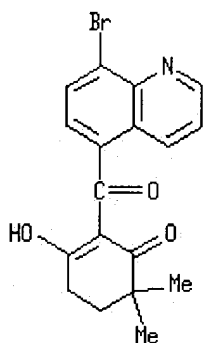
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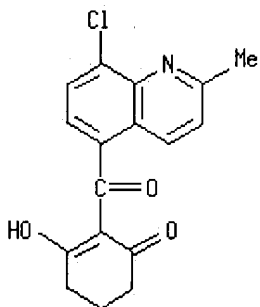
RN 205046-07-7 HCAPLUS

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RN 205046-08-8 HCAPLUS

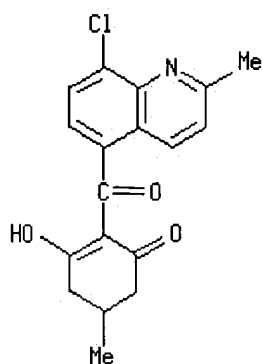
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RN 205046-09-9 HCAPLUS

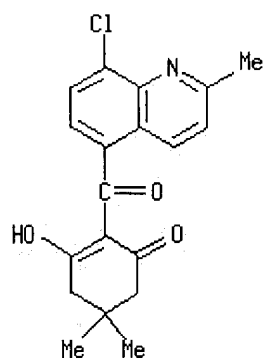
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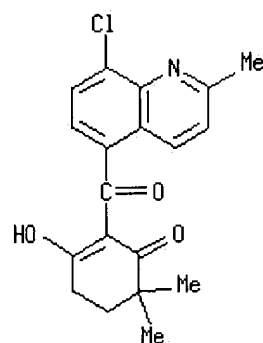
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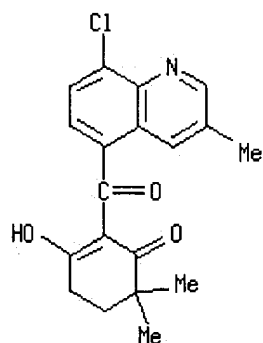
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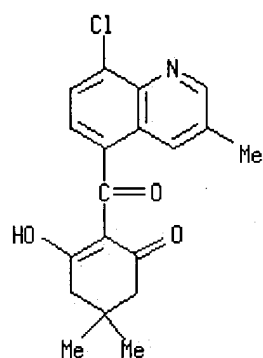
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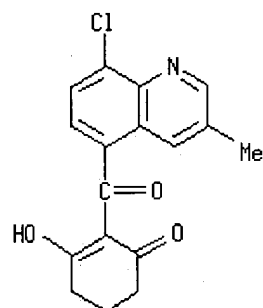
RN 205046-13-5 HCAPLUS

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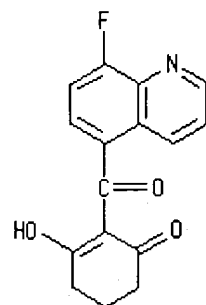
RN 205046-14-6 HCAPLUS

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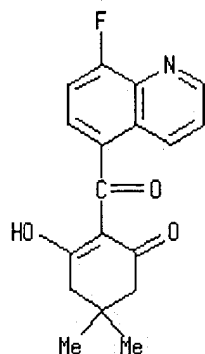
RN 205046-15-7 HCAPLUS

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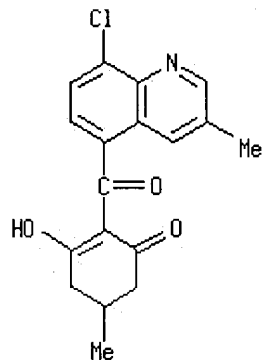
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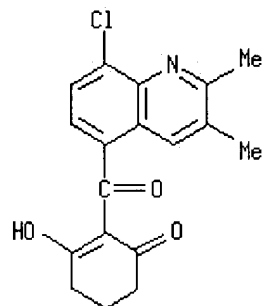
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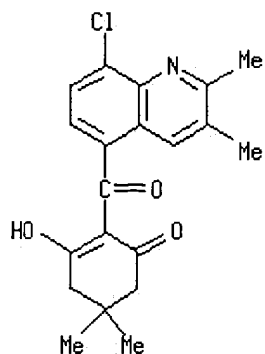
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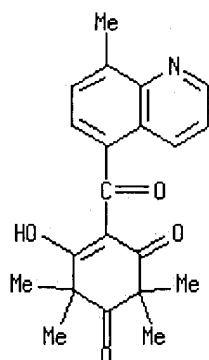
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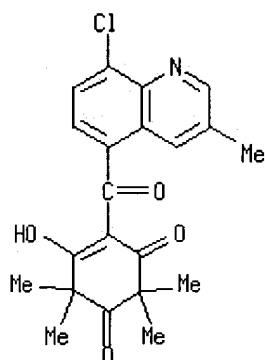
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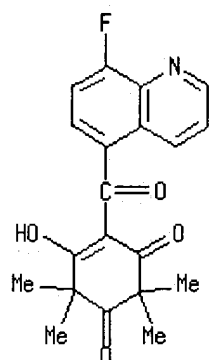
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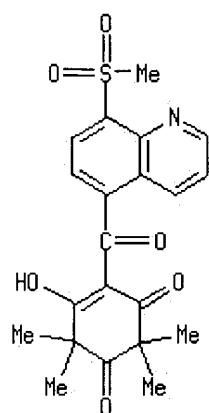
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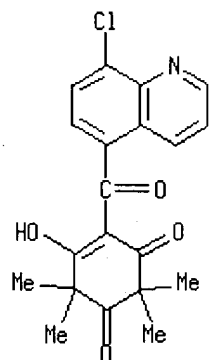
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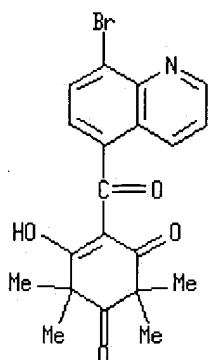
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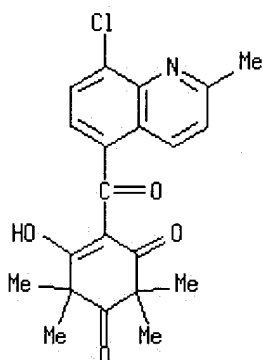
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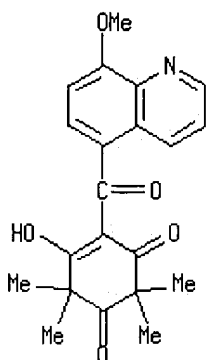
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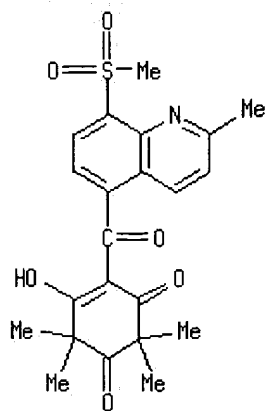
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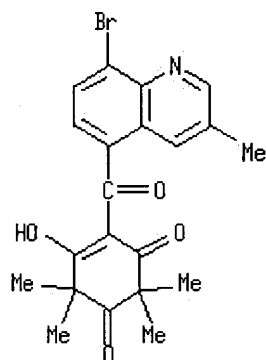
RN 205046-46-4 HCAPLUS

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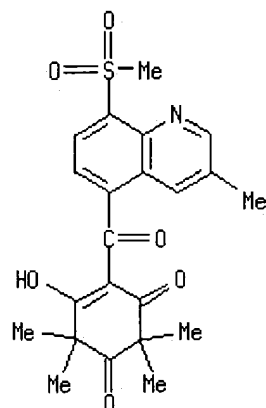
RN 205046-47-5 HCAPLUS

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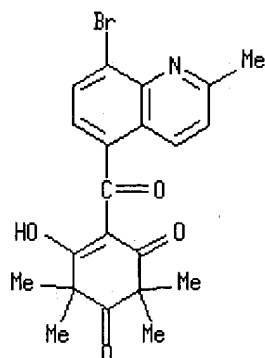
RN 205046-48-6 HCAPLUS

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RN 205046-49-7 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 4-[(8-bromo-2-methyl-5-quinolinyl)carbonyl]-5-hydroxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST

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FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004

L1 STRUCTURE UPLOADED

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L3 106 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004

L4 2 S L3

FILE 'CAOLD' ENTERED AT 20:24:36 ON 07 APR 2004

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FILE 'HCAPLUS' ENTERED AT 20:24:47 ON 07 APR 2004

L6 2 S L3/PREP

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=> s 13

L7 0 L3

=> file uspatfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.18	183.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.78

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 6 Apr 2004 (20040406/PD)

FILE LAST UPDATED: 6 Apr 2004 (20040406/ED)

HIGHEST GRANTED PATENT NUMBER: US6718553

HIGHEST APPLICATION PUBLICATION NUMBER: US2004064864

CA INDEXING IS CURRENT THROUGH 6 Apr 2004 (20040406/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 6 Apr 2004 (20040406/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2004

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2004

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L8 1 L3

=> d 18, ibib abs fhitr, 1

L8 ANSWER 1 OF 1 USPATFULL on STN

Full Text	Citing References
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ACCESSION NUMBER: 2002:297546 USPATFULL

TITLE: Hetaroyl cyclohexanedione derivatives with herbicidal effect

INVENTOR(S): Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF  
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 Walter, Helmut, Obrigheim, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6479436	B1	20021112
	WO 9812180		19980326
APPLICATION INFO.:	US 1999-254973		19990317 (9)
	WO 1997-EP4894		19970909
			19990317 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1996-19638486	19960920
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Huang, Evelyn Mei	
LEGAL REPRESENTATIVE:	Keil & Weinkauff	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	1918	